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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,291	01/25/2006	Isabel Cristina Gonzalez Valcarcel	X15998	5059
25885 ELI LILLY &	7590 12/18/2007 COMPANY		EXAMINER	
PATENT DIVISION			MABRY, JOHN	
P.O. BOX 6288 INDIANAPOLIS, IN 46206-6288			ART UNIT	PAPER NUMBER
			1625	
			NOTIFICATION DATE	DELIVERY MODE
			12/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/566,291	GONZALEZ VALCARCEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	John Mabry, PhD	1625				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 Ja	anuary 2007.					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4)	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicat trity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-3, 5-7, 16, 18-19, 21 and 29-31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-phenyl wherein T =single bond, C or O. A further election of single disclosed species is required.
- II. Claims 1-3, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and

Z=phenyl/naphthyl-T-thiophenyl wherein T =single bond, C or O. A further election of single disclosed species is required.

- III. Claims 1-3, 10-13, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-pyridinyl wherein T =single bond, C or O. A further election of single disclosed species is required.
- IV. Claims 1-3, 14, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- V. Claims 1-3, 14, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = single bond, C or O. A further election of single disclosed species is required.

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- VI. Claims 1-3, 14, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-isoxazolyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- VII. Claims 1-3, 14, 16, 19, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-benzofuranyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- VIII. Claims 1-3, 14, 16, 19, 23, 26, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-phenyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- IX. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or

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substituted with R^3 ; R^1 and R^2 =H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-thiophenyl wherein T = single bond, C or O. A further election of single disclosed species is required.

- X. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-pyridinyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- XI. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- XII. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-

- T-1,3-pyrimidinyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- XIII. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-isoxazolyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- XIV. Claims 1-3, 14, 16, 19, 23, 29 and 31 are drawn to compounds and pharmaceutical compositions of Formula I, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= one being nitrogen and others being CH or substituted with R³; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-benzofuranyl wherein T = single bond, C or O. A further election of single disclosed species is required.
- XV. Claims 1-3, 5-7, 10, 11-14, 16, 18-19, 21, 23, 26-27 and 29-31 are drawn to compounds and pharmaceutical compositions of Formula I that are not encompassed by Groups I-XIV. A further election of single disclosed species is required. This group may be subject to further restriction.

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XVI. Claim 43 is drawn to a method for lowering blood-glucose in a mammal limited to the scope of one of groups I-XV. An election of species is required if this group is chosen.

The inventions listed as Groups I- XVI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features...those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The special technical feature corresponding to Group I is a multiple aryl structure wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-phenyl wherein T =bond, C or O. Group II contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-thiophenyl wherein T = bond, C or O. Group III contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-pyridinyl wherein T = bond, C or O. Group IV contains an imidazo pyridinone structure as its special technical feature, wherein Q=-CH₂-CO₂R⁶; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = bond, C or O.

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Group V contains a multiple aryl structure as its special technical feature, wherein Q=- $CH_2-CO_2R^6$; A₁, A₂ and A₃=O, CH_2 , S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = bond, C or O. Group VI contains a multiple aryl structure as its special technical feature, wherein Q=- $CH_2-CO_2R^6$; A₁, A₂ and A₃=O, CH_2 , S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-isoxazolyl wherein T = bond, C or O. Group VII contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂- CO_2R^6 ; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=phenyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-benzofuranyl wherein T = bond, C or O. Group VIII contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂- CO_2R^6 ; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅=pyridinyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-phenyl wherein T = bond, C or O. Group IX contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂- CO_2R^6 ; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= pyridinyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-thiophenyl wherein T = bond, C or O.Group X contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂- CO_2R^6 ; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= pyridinyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-pyridinyl wherein T = bond, C or O. Group XI contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂- CO_2R^6 ; A₁, A₂ and A₃=O, CH₂, S; E₁, E₂, E₃, E₄, E₅= pyridinyl; R¹ and R²=H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T =bond, C or O. Group XII contains a multiple aryl structure as its special technical feature, wherein Q=-CH₂-

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 CO_2R^6 ; A_1 , A_2 and A_3 =O, CH_2 , S; E_1 , E_2 , E_3 , E_4 , E_5 = pyridinyl; R^1 and R^2 =H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-1,3-pyrimidinyl wherein T = bond, C or O. Group XIII contains a multiple aryl structure as its special technical feature, wherein Q=- CH_2 - CO_2R^6 ; A_1 , A_2 and A_3 =O, CH_2 , S; E_1 , E_2 , E_3 , E_4 , E_5 = pyridinyl; R^1 and R^2 =H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-isoxazolyl wherein T = bond, C or O. Group XIV contains a multiple aryl structure as its special technical feature, wherein Q=- CH_2 - CO_2R^6 ; A_1 , A_2 and A_3 =O, CH_2 , S; E_1 , E_2 , E_3 , E_4 , E_5 = pyridinyl; R^1 and R^2 =H, alkyl, Y=a bond, alkyl and Z=phenyl/naphthyl-T-benzofuranyl wherein T = bond, C or O. Group XV contains a multiple aryl structure as its special technical feature that are not encompassed by Groups I-XIV. The ring systems are not considered equivalent.

The technical feature corresponding to the methods claims of Group XVI is a method of for lowering blood-glucose in a mammal. There is a significant difference in the between compounds/composition and methods of treating a disease/condition and method of lowering blood-glucose in a mammal. This treatment of lowering blood-glucose in a mammal and compounds/compositions are not considered equivalent.

The special technical feature of this invention is the common core found in Formula I. This special technical feature, found in WO 97/28115 A1 as described by Adams et al (Example 61, page 109) – already of record in IDS.

Therefore the above claims, are not so linked as to form a single general inventive concept and there is a lack of unity of invention because they lack a common core structure and the technical features present fail to define a contribution over the prior art. Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper.

Therefore, since the claims do not relate to a single general inventive concept under PCT Rule 13.1 and lack the same or corresponding special technical features, the claims lack unity of invention and should be limited to only one invention.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Rejoinder Advisory

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

RITA DESAT
PRIMARY EXAMINER

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Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Mabry, PhD whose telephone number is (571) 270-1967. The examiner can normally be reached on M-F from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres, can be reached on (571) 272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Sm

JM

PRIMARY EXAMINER